

Claims

1. A gas generator which is an ignition means comprising an igniter assembly containing an igniter main body having an ignition portion to be ignited by an ignition electric current and an igniter collar in a generally cylindrical shape which wraps and holds the outside of the igniter main body, and a cup body loaded with a gas generating agent inside and having an opening portion, wherein the igniter assembly and the cup body are connected such that at least the ignition portion of the igniter main body is wrapped in the cup body and the ignition portion and the gas generating agent are in contact, and at least part of the exterior surface of the igniter collar and at least part of the exterior surface of the cup body are connected and fastened from the outside by means of a tubular crimp case.

2. The gas generator as claimed in claim 1, wherein both or one of the upper end side and the lower end side of the opening circumferential edge portions of the crimp case installed from the outside of the ignition collar and the cup body are bent inwardly, and, in the inside, the igniter collar and the cup body are connected and fastened.

3. The gas generator as claimed in claim 2, wherein the cup body has a flange portion formed outwardly from the opening circumferential edge portion, and the cup body and the crimp case are connected and fastened by pressing

the flange portion of the cup body with the upper end side of a bent portion of the crimp case.

4. The gas generator as claimed in claim 2, wherein the igniter collar and the crimp case are connected and fastened by pressing a flat surface portion of the igniter collar with the lower end side of a bent portion of the crimp case.

5. The gas generator as claimed in claim 1 or 2, wherein the igniter main body and the igniter collar in a generally cylindrical shape are integrated by resin.

6. The gas generator as claimed in claim 5, wherein, in a portion of the igniter collar which contacts the resin, a means for preventing rotation of resin in the collar is arranged.

7. The gas generator as claimed in claim 1 or 2, wherein the cup body has a fragile portion in at least one of a closed end surface and a circumferential wall surface.

8. A gas generator for an air bag comprising, an ignition means, and a combustion chamber accommodating a gas generating agent ignited and burnt by the ignition means to generate a combustion gas for inflating an air bag, or a pressurized medium chamber loaded with a pressurized medium as a means to inflate an air bag, all accommodated in a housing having a gas discharging port, wherein the gas generator as claimed in claim 1 or 2 is used as the ignition means.

9. A method of manufacturing a gas generator

comprising a step of pressing an igniter collar in a generally cylindrical shape into a tubular crimp case, a step of installing an igniter main body to the igniter collar and obtaining an igniter assembly, a step of putting a cup body having a flange portion formed outwardly at an opening portion on the igniter main body, and a step of crimping an upper end side of the opening circumferential edge portion of the crimp case inwardly and pressing the flange portion of the cup body, together with crimping an lower end side of the opening circumferential edge portion inwardly and pressing the igniter collar.

10. The method of manufacturing a gas generator as claimed in claim 9, which comprises a step of pressing the igniter collar in a generally cylindrical shape into a tubular crimp case in a condition that the lower end side of the opening circumferential edge portion is bent inwardly.

11. The method of manufacturing a gas generator as claimed in claim 9 or 10, wherein, in the step of obtaining an igniter assembly, the igniter collar and the igniter main body are integrated by resin.